

## Test Reactor Area (TRA) Landlord

### Background

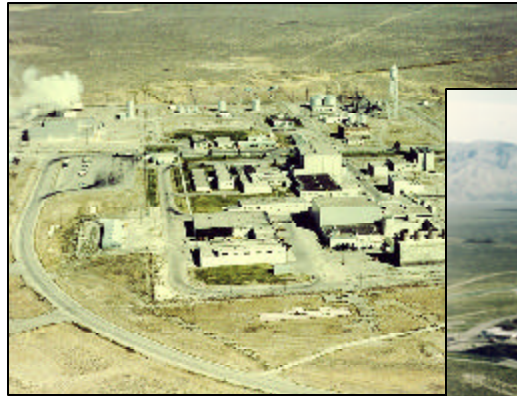
The Test Reactor Area (TRA) is located on the Idaho National Engineering and Environmental Laboratory (INEEL) site west of Idaho Falls Idaho. The mission of the TRA Landlord Program is to maintain and upgrade the site support facilities and utility infrastructure to meet programmatic, environment, safety and health requirements and to cleanup legacy waste. Currently operating on the site are:

(1) the Advanced Test Reactor (ATR), which is the world's largest and most advanced test reactor, (2) the ATR Critical Facility reactor, (3) the TRA Hot Cells (TRAHC) which process irradiated materials produced in the ATR, (4) the INEEL Research and Development Laboratory, and (5) a major industrial maintenance and machine shop facility that supports not only TRA facilities but also performs support work for all of INEEL. The primary areas of activity at TRA are: nuclear fuels and core structural materials research and development in the ATR for Naval Reactors and international reactors programs; production of critical isotopes for medicine and industry which are irradiated in the ATR and processed in the TRAHC; and conduct of important activities in the INEEL Research and Development Laboratory such as fusion fuel research, nonproliferation technology research, and various INEEL Laboratory-Directed Research and Development projects.

The mission of TRA Landlord is projected to continue until well into the 21st century. However, the site is over 40 years old, and the majority of the buildings and infrastructure require upgrading and refurbishment. A recent analysis indicates that the funding required to accomplish the needed upgrades and repairs to the site support facilities and utility infrastructure to accomplish this projected mission is approximately twice the current funding levels. A significant increase in target funding for TRA Landlord is essential in order to ensure safe and reliable operations at TRA for the projected mission.

### FY 1999 Major Accomplishments:

- Conducted necessary maintenance and repair on TRA buildings, structures, and utility systems in accordance with priorities to the extent funding would allow. A current backlog of maintenance items totaling approximately \$3.6 million existed at the end of FY 1999.
- Provided engineering support for construction projects. The level of effort was significantly below planned due



to need to defer planned construction projects at the current outyear target funding level.

- Conducted cleanup of legacy radioactive and other hazardous wastes to achieve compliance with federal and State of Idaho environmental laws and regulations to the extent funding would allow. Legacy waste cleanup will be a multi-year project stretching out well beyond FY 2006 at the current projected target funding level.
- Procured and installed general purpose capital equipment (GPCE) for the site to the extent funding would allow in accordance with the approved priority list.
- General Plant Project (GPP) funds used to continue the upgrade the TRA Water Demineralizer Plant. This was the only GPP that could be funded.
- Continued the construction phase of the TRA Fire and Life Safety Improvements Line Item Construction Project (LICP). This project, which began in FY 1995, was planned to complete in FY 1999. However, due to funding constraints, the project won't complete until FY 2004 at the current target funding level.
- Began Title II design for the TRA Electrical Utility Upgrade LICP. This high priority upgrade project was planned to be completed in FY 2002, but, at the current target level, completion will not occur until end of FY 2005.

### FY 2000 Planned Accomplishments:

- Continued to conduct maintenance and repair on TRA buildings, structures, and utility systems in accordance with priorities to the extent funding will allow. Within the FY 2000 TRA Landlord budget, no funding is available to address the growing backlog of maintenance items.

- Provided engineering support for construction projects. The level of effort is significantly below planned and needed due to the need to defer planned construction projects at the current outyear target funding level.
- Continued cleanup of legacy radioactive and other hazardous waste to the extent funding will allow. Commitments in the INEEL Voluntary Consent Order (VCO) with the State of Idaho for TRA will be met for FY 2000. Additional legacy waste issues have emerged since the VCO was negotiated which could result in further Notices of Violation from the State. Additional funding is needed in the immediate outyears to expeditiously mitigate this waste.
- Procured and install GPCE to the extent funding will allow in accordance with the approved priority list. Within in the FY 2000 TRA Landlord budget, about half the needed equipment identified will be obtained.
- Completed the GPP to upgrade the TRA Water Demineralizer Plant. Due to funding constraints at the current target level, the GPP to isolate the TRA Radioactive Retention Basin for environmental protection planned for FY 2000 has been deferred to FY 2001.
- Continued construction phase of the TRA Fire and Life Safety Improvements LICP to the extent funding will allow at current target level. Planned completion in FY 1999 has been deferred to FY 2005 at current and projected target level.
- Continued Title II Design for the TRA Electrical Utility Upgrade LICP to the extent funding will allow. Title II design was planned to complete in FY 2000; however, at current target funding levels, Title II Design won't complete until FY 2001 and the project won't complete until FY 2005 instead of the planned FY 2002.

#### **FY 2001 Planned Accomplishments:**

- Continue necessary maintenance and repair on TRA buildings, structures, and utility systems in accordance with priorities to the extent funding will allow. Within the FY 2001 projected TRA Landlord budget, no funding will be available to address the growing backlog of maintenance items.

- Provide engineering support for construction projects. The level of effort will be significantly below planned due to need to defer planned construction projects at the current outyear target funding level.
- Continue cleanup of legacy radioactive and other hazardous waste to the extent funding will allow. Commitments in the INEEL VCO with the State of Idaho are planned to be met for FY 2001 with the planned budget. Additional legacy waste issues that continue to emerge since the VCO was negotiated could result in further Notices of Violation from the State if these issues are not resolved expeditiously. Funding at the current target level will require deferral of cleanup of much of this waste for several years.
- Procure and install GPCE to the extent funding will allow in accordance with the approved priority list. Funding for GPCE at the current target level is about half that identified as needed.
- Begin the GPP to isolate the TRA Radioactive Retention Basin for environmental protection and the GPP to provide a new potable water well and distribution system to meet new drinking water standards. At the current target level, these projects will not be completed in FY 2001 as planned. Completion will be deferred until FY 2002.
- Continue the construction phase of the TRA Fire and Life Safety Improvements LICP to the extent funding will allow. Planned completion in FY 1999 has been deferred to FY 2005 at the planned funding level.
- Complete Title II Design for the TRA Electrical Utility Upgrade LICP. Beginning the construction phase was planned for FY 2001 but must be deferred until FY 2002 at the planned funding level. At the current target funding level, construction won't complete until FY 2005 instead of the planned FY 2002.

<b>Program Budget TRA Landlord (in millions)</b>		
<b>FY 1999</b>	<b>FY 2000</b>	<b>FY 2001</b>
<b><u>Appropriation</u></b>	<b><u>Appropriation</u></b>	<b><u>Appropriation</u></b>
\$6.8	\$7.1	\$9.0

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